Special Issue

Low-Dimensional Materials (LDMs) for Biosensing Applications

Message from the Guest Editors

Low-dimensional materials (LDMs) are emerging materials in the development of next-generation biosensors with superior performance. LDMs, including zero-dimensional (0D) nanoparticles, one-dimensional (1D) nanowires/nanotubes, and two-dimensional (2D) nanosheets (e.g., 2D graphene, MoS2, and MXenes), have been widely employed as sensing components, as either sensing materials or transducers. This is due to their high surface-to-volume ratios and unique physical and chemical properties. In view of this rapidly growing field, it is our pleasure to invite you to contribute to this Special Issue focused on the recent advances, future perspectives, and challenges for the development of biosensors using LDMs.

Guest Editors

Dr. Meng-Qiang Zhao

Department of Chemical and Materials Engineering, New Jersey Institute of Technology, Newark, NJ 07102, USA

Prof. Dr. Eden Morales-Narváez

Biophotonic Nanosensors Laboratory, Center for Applied Physics and Advanced Technology, National Autonomous University of Mexico (Universidad Nacional Autónoma de México, UNAM), Juriquilla, Queretaro, Mexico

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Biosensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biosensors@mdpi.com

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Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

Editor-in-Chief

Prof. Dr. Giovanna Marrazza
Department of Chemistry "Ugo Schiff", University of Florence, Via della Lastruccia 3, 50019 Sesto Fiorentino, Italy

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